AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. - 24. (Previously cancelled).

25. (Currently Amended) A method in a computer system for processing hereditary data related to the use of clinical agents by a person, comprising the steps of:

receiving a genetic test result value for the person;

querying a computerized table listing polymorphism values and atypical clinical events associated with the polymorphism values;

determining if the genetic test result value is a polymorphism value associated with an atypical clinical event, and if so, accessing a list of risk-associated agents; and

outputting an interpretation of the genetic test result value and the list of risk-associated agents.

26. (Original) The method of claim 25, further comprising the step of determining if the person has been exposed to an agent on the list of risk-associated agents.

27. (Original) The method of claim 26, wherein the step of determining if the person has been exposed includes accessing an electronic medical record of the person.

28. (Original) The method of claim 27, wherein the electronic medical record is stored within a comprehensive healthcare system.

29.   (Original)   The method of claim 26, further comprising the step of initiating a clinical action if the person has been exposed to an agent on the list of risk-associated agents.

30.   (Original)   The method of claim 29, wherein the clinical action is generating an electronic message to inform a clinician to no longer administer the agent.

31. - 54. (Previously cancelled).

55.   (Currently Amended)   A computer system for processing hereditary data related to the use of clinical agents by a person, comprising the steps of:

a receiving component that receives a genetic test result value for the person;

a querying component for querying a computerized table listing polymorphism values and atypical clinical events associated with the polymorphism values;

a first determining component that determines if the genetic test result value is a polymorphism value associated with an atypical clinical event;

an accessing component that accesses a list of risk-associated agents if the determining component determines that a genetic test result value is polymorphism value associated with an atypical event; and

an outputting component that outputs an interpretation of the genetic test result value and the list of risk-associated agents.

56.   (Original) The computer system of claim 55, further comprising a second determining that determines if the person has been exposed to an agent on the list of risk-associated agents.

57.   (Original) The computer system of claim 56, wherein the second determining component determines if the person has been exposed includes an accessing component that accesses an electronic medical record of the person.

58.   (Original) The computer system of claim 57, wherein the electronic medical record is stored within a comprehensive healthcare system.

59.   (Original) The computer system of claim 56, further comprising an initiating component that initiates a clinical action if the person has been exposed to an agent on the list of risk-associated agents.

60.   (Original) The computer system of claim 59, wherein the clinical action is generating an electronic message to inform a clinician to no longer administer the agent.

61. – 84. (Previously cancelled).

85.   (Currently Amended)   A computer-readable medium containing instructions for processing hereditary data related to the use of clinical agents by a person, comprising the steps of:

receiving a genetic test result value for the person;

querying a computerized table listing polymorphism values and atypical clinical events associated with the polymorphism values;

determining if the genetic test result value is a polymorphism value

associated with an atypical clinical event, and if so, accessing a list of risk-

associated agents; and

outputting an interpretation of the genetic test result value and the list of

risk-associated agents.

86. (Original) The computer-readable medium of claim 85, further

comprising the step of determining if the person has been exposed to an agent on the list of risk-

associated agents.

87. (Original) The computer-readable medium of claim 86, wherein the step

of determining if the person has been exposed includes accessing an electronic medical record of

the person.

88. (Original) The computer-readable medium of claim 87, wherein the

electronic medical record is stored within a comprehensive healthcare system.

89. (Original) The computer-readable medium of claim 86, further

comprising the step of initiating a clinical action if the person has been exposed to an agent on

the list of risk-associated agents.

90. (Original) The computer-readable medium of claim 89, wherein the

clinical action is generating an electronic message to inform a clinician to no longer administer

the agent.

91. (Currently Amended) A method in a computer system for processing

hereditary data related to the use of clinical agents by a person, comprising the steps of:

receiving a genetic test result value for the person;

querying a computerized table listing polymorphism values and atypical clinical events associated with the polymorphism values;

determining if the genetic test result value is a polymorphism value associated with an atypical clinical event, and if so, accessing a list of risk-associated agents;

outputting an interpretation of the genetic test result value and the list of risk-associated agents; and

determining if the person has been exposed to an agent on the list of risk-associated agents.